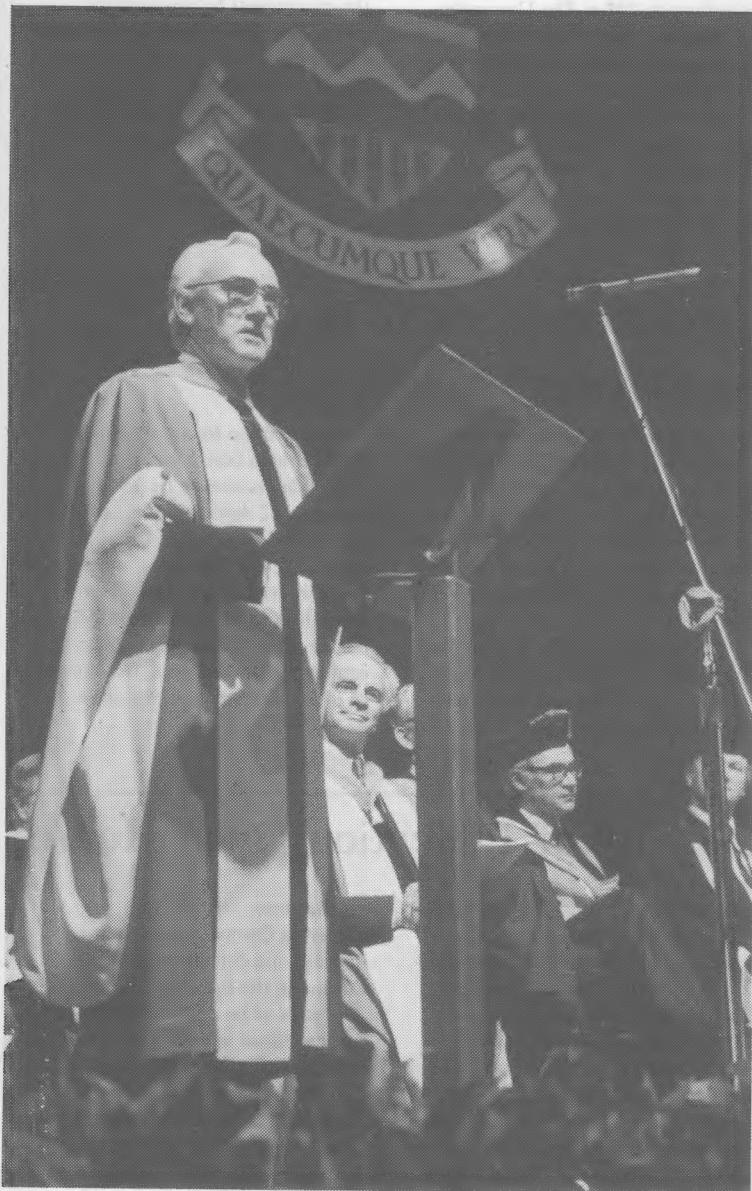




75th Anniversary  
1908-1983

# FOLIO



Larkin Kerwin, President of the National Research Council of Canada, addresses the special 75th Anniversary Convocation. Dr. Kerwin and Lloyd Barber, President of the University of Regina, were conferred honorary Doctor of Laws degrees at the 2 March event. Dr. Kerwin was presented by J. Gordin Kaplan, Vice-President (Research); Dr. Barber was presented by Brian McDonald, Associate Vice-President (Academic Administration). The special Convocation coincided with the general meeting of the Association of Universities and Colleges of Canada.

The University of Alberta

## General Faculties Council

The February meeting of General Faculties Council was held on Monday, 28 February. Before dealing with the relatively short agenda, President Horowitz reported to Council on the continued increase in enrolment. "I have to be honest and admit that I just couldn't believe the figures when they were first presented to me," stated Dr. Horowitz, referring to statistics released recently by the Office of the Registrar. These figures indicate that in addition to the record enrolment experienced in September 1982, 700 more students registered at the University after Christmas. This brings the full-time enrolment to 21,600; with 2,250 more than at the same time last year, this means a percentage increase of 11.6.

Addressing himself to the implications inherent in such a record enrolment, Dr. Horowitz flagged two major concerns. The first dealt with the importance of a further adjustment to the base budget. Such an increase, according to Dr. Horowitz, is necessary "in order to provide qual-

ity education to our students." The second issue raised by Dr. Horowitz was the very real need to address the question of the ultimate size of the University. "Just how large should the University become? Should we be looking at quotas in programs that do not now have them?" These questions and others will need to be explored by the University, he said.

Council then dealt with its scheduled agenda, hearing first from Paul Sartoris, Acting Dean of Students, who presented a report on proposed changes in the terms of reference of the Council on Student Services (COSS). Dr. Sartoris, who is also Chairman of COSS, pointed out that the revised terms of reference incorporate into COSS's mandate the review and evaluation of major housing policies, as well as the requirement that the University Athletics Board must, in future, bring its constitution and bylaws to COSS for approval.

The 1982 annual report of the GFC Computing Committee was then considered by Council. Questions were raised regarding both the provincial government's matching grant policy as it applies to computer equipment and the need for additional computer terminals on campus. Recognizing the need for an improved "communications network," Ron Phillips, Vice-President (Facilities and Services), assured Council that interim measures were being undertaken until such time as funding is available for the development and installation of a local area network.

The next item on the agenda was a report from the GFC Undergraduate Scholarship Committee (USC) which presented to Council a proposal for a University Medal Policy. The policy, approved by GFC after considerable discussion (in par-

## This Week's Quote

*"We have several stars on campus and several more have joined them thanks to recent appointments to our Killam and Tory Chairs. Peter Pocklington obviously knows the value of a superstar; it would be nice to have a few academic Gretzkys on our campus."*

Source: J. Gordin Kaplan, Vice-President (Research) in a report to the Board of Governors on the status of the Faculty of Graduate Studies and Research. □

ticular, questions were raised concerning the choice of 24K as a minimum gold content), sets out four categories of medals: (1) "gold medals... which must have a minimum gold content of 24K (0.9999 pure gold) and a minimum weight of 30 grams (0.965 Troy ounces)"; (2) "silver medals... which must be made of sterling (925 parts silver with 75 parts copper)"; (3) "Bronze medals... which must be made of an alloy of copper and tin"; and (4) "gold plated medals... which must be gold plated or gold dusted over sterling gilt centres... to be known only as medals."

(In speaking with *Folio* after the GFC meeting, Larry Henderson, Administrator of Student Awards, pointed out that the change in the gold medal policy means that some forty "gold" medals given out to University students will hereafter be known only as medals. "Arts and Science have opted for 24K medals," he stated. "And I expect that others may well follow suit as time and budgets allow.")

Considerable time and attention was given to the final item on the agenda, the consideration of recommendations from the Committee on Admissions and Transfer (CAT) with regard to comprehensive examinations for Alberta high school students. E. Reinhold, Chairman

of CAT, set before Council a series of recommendations dealing with what he termed "this complex and important matter." He made it clear at the outset that the recommendations brought forward dealt with principles only, and that CAT will proceed with a detailed study of the Alberta Education proposals.

During the ensuing discussion, several important points were made clear: • that there appears to be widespread support for compulsory external examinations; • that, in the words of President Horowitz, the University "has not been involved properly during the last two or three years, and that we fully expect to be involved in other ways in the next while"; • that if The University of

Alberta is to use the provincial exam it must be one that "suits our purpose"; and • that it is essential that the University be consulted on the design of the tests in question.

After receiving assurances from Dr. Reinhold that CAT will initiate discussions with Alberta Education on the question of comprehensive examinations, GFC voted 61 to 3 in favor of the following CAT recommendations: "That The University of Alberta endorse in principle and encourage the development of meaningful common external examinations in the secondary schools of Alberta. From the perspective of this University the basic purpose of these examinations would be to monitor and certify levels of achieve-

ment in secondary schools. There are two essential components of this certification: (1) The tests should predict level of performance at the University with sufficient power to provide meaningful assistance in the selection of students. This predictive power of such tests can only be verified after the tests have been in use for some time; (2) The content of these tests should be consistent with the educational background required in our programs. In this latter regard The University of Alberta considers it essential to be consulted on the design (format and content) of these tests and other related matters." □

## Physical Education and Recreation to Host Second SAS Visiting Scholar

J.A. Mangan, Head of the Education Department at Jordanhill College, Glasgow, Scotland, has accepted an invitation to be the second SAS (Support for the Advancement of Scholarship) Visiting Scholar in the Faculty of Physical Education and Recreation. (The first such visitor was Mihaly Csikszentmihalyi, see *Folio*, 18 November 1982.) Dr. Mangan, currently Visiting Professor at the University of California—Berkeley, will be on campus from 21 March to 19 April.

Dr. Mangan's qualifications include a bachelor's degree from Durham University and a doctorate from the University of Glasgow. In addition, he has studied at Loughborough, Nottingham, and Oxford. Dr. Mangan has taught at various schools, colleges, and universities; has served as director of several management courses for school staff and industrial executives; and is a founding member of the British Educational Administration Society and the Scottish Educational Administration and Management Association.

Dr. Mangan has published widely in a number of scholarly journals, and has contributed chapters to various books. His most recent book, *Athleticism in the Victorian and Edwardian Public School: The Emergence and Consolidation of an Educational Ideology* (Cam-

bridge University Press, 1981) is considered a landmark in the literature, receiving "rave" reviews internationally. First President of the newly-formed British Society for Sports History, he is Editor of the forthcoming *British Journal of Sports History*.

During his four-week visit to the University, Dr. Mangan will present a number of lectures and seminars, including an open lecture entitled

"Christ and the Imperial Games Field: Evangelical Athletes of the Empire." The lecture, to be held on Tuesday, 12 April, will take place in the Humanities Centre Lecture Theatre, LC-1, beginning at 3:30 p.m. More information on this lecture and others to be given by Dr. Mangan during his stay may be obtained by contacting G. Redmond, Department of Physical Education, telephone 432-2018. □

## Faculty of Education Open House

The Faculty of Education invites the public and members of the profession to join in its celebrations during the period 18 to 20 March in the Education Centre.

The Open House will be officially launched on 18 March at 7 p.m. by Dean Worth; the program will feature a topical address on Canadian education by President Myer Horowitz. Between 8:30 and 10 p.m. a special reception for alumni of the Faculty of Education will be held. Present and past Deans of Education, staff members, and professors look forward to the opportunity to get reacquainted with their students of yesteryear. Refreshments will be served and old times relived through displays, photographs, and

recollections.

During Open House weekend displays and demonstrations will abound in the Education Centre. All facets of work, including the latest in educational computer technology, will be open for inspection.

A warm welcome is extended to the public to come, look, and participate in the life and work of the Faculty of Education. Open House hours are as follows: Friday, 18 March, 6 to 10 p.m.; Saturday, 19 March, 10 a.m. to 5 p.m.; Sunday, 20 March, 2 to 5 p.m.

Further information can be obtained by telephoning the Assistant Dean, James Small, at 432-3651. □

# FOLIO

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## Characteristics of U of A Graduate Students

In 1980 the Office of Institutional Research and Planning (IRP) completed a study of some of the characteristics of full-time undergraduate students at The University of Alberta (as reported in *Folio* of 29 January 1981). This was the first in a series of surveys of major groups of students on campus. IRP recently completed the report of the second study in this series, *General Characteristics of Graduate Students at The University of Alberta, 1980-81*.

As with undergraduate students, information concerning the academic records and general demographic variables such as age, sex, marital status and immigration status of graduate students is available on the Student Data Base maintained by the Office of Administrative Systems. Additional information is available from the many studies at various universities which involve graduate students as subjects, but most are concerned with only a few aspects of graduate students' experiences. Typically these studies deal with such variables as academic success, employment after graduation, or funding. However, this information is rather incomplete and is not necessarily relevant to our graduate students. The surveys of both undergraduate and graduate students at The University of Alberta sought to provide a broader base of data so that information which could be of use to administrators, student organizations and others would be readily available.

### Procedure

An Advisory Committee of administrators, interested academics and students provided assistance during the study, particularly in the area of questionnaire design.

The questionnaire which had been developed for the full-time undergraduate student survey served as the basis for the questionnaire to be sent to graduate students. Demographic variables included such items as sex, age, marital status, number of dependent children, parents' education, and location of previous education. Academic information was sought relating to the status of the student at the time of the survey. Questions concerning

employment and finances probed such areas as employment on and off campus, the number of hours spent in such employment, earnings derived from employment, monthly expenses, University expenses, debt loads, and sources of funds for living and educational expenses. Location and type of accommodation, means of transportation, and miscellaneous questions about various aspects of campus life were also included.

A draft questionnaire was sent to a random sample of 100 full-time and part-time graduate students. After analyses of the pilot data and consultation with a group of respondents, the questionnaire was revised.

In February 1981, a sample of 498 full-time and part-time graduate students was selected from the Student Data Base. Students were instructed in a covering letter to return the questionnaire and a postcard as *separate* pieces of mail. This was to maintain anonymity while allowing identification (via the postcard bearing the student's ID number) of respondents so that a follow-up of non-respondents could be made. Students who had not returned a postcard within three weeks were sent a follow-up letter and postcard. A further attempt to elicit participation was made by telephone three weeks after the mail follow-up. This resulted in 328 returns (65.9 percent of the total number sent).

### Findings

From a total of forty-three questions containing 276 variables a great deal of information was obtained. Because this vast amount of knowledge about our graduate students could not be contained in this article, the discussion will be very selective. Tables and graphs for all variables are contained in the complete report which was sent to every chairman and dean as well as to other interested administrators and the Graduate Students' Association.

Comparison of data from the population data base and from the respondents in the sample indicated only small differences between the two. Differences indicated slight underrepresentation of younger graduate students, male graduate students, and permanent residents,

but, on the whole, the sample was quite representative of the total population at The University of Alberta.

However, that does not mean that sweeping generalizations could be made. The graduate students were quite a heterogeneous group. They came from many parts of the world, had a wide range of ages and experiences, and were studying at various levels of post-graduate education in a variety of fields.

Some comparisons of graduate students and undergraduate students are presented in Table 1 (all percentages have been reported to the nearest whole number). Compared to undergraduates, graduate students were older (as would be expected), and higher percentages were married, male, student visitors, and lived in their own homes. In terms of means of transportation to campus there was little difference between the percentages of graduate students and undergraduate students who walked, but graduate students were less likely to use public transit and were more likely to drive their own cars than were the undergraduates. The full-time graduate students were also more involved in employment (both on campus and off).

Graduate students were asked the main reasons why they chose to do their graduate work at The University of Alberta. Responses to this open-ended question were quite

varied, but they were readily placed in the categories shown in Table 2. The most frequent category of responses was related to proximity to and awareness of the University, including having been an undergraduate here, spouse or self working in Edmonton, family living here, or residing nearer to The University of Alberta than to another university. Academic reasons ranked second in over-all importance, while financial considerations ranked third.

Background data were obtained concerning the geographical location in which most of the respondent's life had been spent. Analyses of these data were aggregated at the Faculty level. The results concerning urban/rural location of childhood home for students in the large Faculties of Arts, Business, Education, and Science are presented in Table 3. About half of the Arts and Education students came from rural and smaller urban centres (populations of up to 19,999), whereas more than three-quarters of the Business and Science students came from larger urban centres (populations of 20,000 or more).

The highest level of educational attainment of parents (as a possible influence on student's attainment) was included in the survey. These background data were also analyzed at the Faculty level. Greater percentages of fathers of graduate students in Business (53 percent) and Science (55 percent) had some

Table 1

Comparison of Percentages of Graduate Students and Undergraduate Students for Selected Variables

	Percentage Frequency	
	Graduate	Undergraduate
Age—under 25	17	87
—25 to 29	40	10
Married	51	14
Lived in Own Home	33	5
Male	60	48
Student Visitor	18	4
Walked to Campus	31	28
Used Public Transport	21	43
Drove Own Car	39	16
Did Not Work	23	70
Worked 1-10 hours per week	28*	16
Worked 11-20 hours per week	36*	10
Worked more than 20 hours per week	13*	4

\*full-time graduate students only

post-secondary education than did the fathers of graduate students in Arts (39 percent) and Education (32 percent). A similar pattern was obtained for the mothers of graduate students in these Faculties. However, smaller percentages of mothers had some post-secondary education than did the fathers of these graduate students.

These are but a few of the analyses that have been performed on the considerable amount of data that were collected. If information not contained in either this article or in the complete

report would be useful, readers are invited to contact E. A. Holdaway, Director, Office of Institutional Research and Planning, 1-16 University Hall. Additional analyses may be undertaken subject to availability of resources. IRP welcomes any suggestions of additional useful information which could be gathered in a future survey of this kind.\*□

\*This article was submitted by Wendy Bryan, Research and Planning Analyst, Office of Institutional Research and Planning.

**Table 2**

*Main Reasons for Choosing The University of Alberta for Graduate Work*

	Percentage Frequency		
	1	2	3
Proximity—convenient, undergraduate here, spouse/job/family here	43	31	28
Academic—reputation of U of A, department/program availability	23	28	18
Financial—assistantships, support from spouse or employer	7	11	20
Research—availability, facilities	7	9	8
Desirable geographic location to which to move	6	5	10
Advisor—availability, reputation	5	6	4
Accepted by U of A	2	4	3
Other	6	6	9
n	309	203	93

## More Locker Room Changes

New lockers will be installed in the locker rooms in place of the small wire mesh lockers immediately after the end of term. This means another disruption of the locker rooms. Geoff Elliott, Faculty of Physical Education and Recreation, says it is essential that all student lockers are emptied by 13 April. In addition, all graduate students and staff who have small wire mesh lockers will be asked to move by 17 April. Where possible they are requested to use the locker rooms on a "day use only" basis because of the limited number of available lockers.

During the locker installation period of 17 April to 15 June, women will be restricted to the existing West section of the women's lockers. There will be some temporary lockers placed in the corridor of the West pool for "day use only."

The World University Games will

have exclusive use of the West wing of the Physical Education and Recreation Centre and of the track and football field for the period 15 June to 15 July. This means there will be no access to the men's locker rooms and showers during this period. In order to allow some recreation, however, the East wing including the East pool, racquetball, and squash courts and the dance gymnasium will be available on a limited basis. The East locker rooms will be divided into men and women areas (much as they used to be in the "good old days") and will be available on a "day use only" basis.

"Your cooperation and continuing good humor is requested once again for the period of 13 April to 20 July," Mr. Elliott says. "The equipment room staff will be happy to answer your questions and notices will be posted where appropriate."□

**Table 3**

*Urban/Rural Location of Childhood Home of Graduate Students*

Faculty	n	Type of Area		
		Large Urban <sup>(a)</sup>	Small Urban <sup>(b)</sup>	Rural <sup>(c)</sup>
Arts	35	49	23	29
Business	38	76	16	8
Education	81	51	24	26
Science	52	83	10	8

(a) urban centre of 20,000 or more

(b) community of between 1,000 and 19,999

(c) rural area or population centre of less than 1,000

## Edmund Kemper Broadus Lectures

The Edmund Kemper Broadus Lectures began last week. Named in honor of the first chairman of the Department of English, the series is delivered annually by a senior member of the Department of English.

The series this year is being presented by D.E. Bessai who is speaking on "The Colonial Imagination." Professor Bessai is a specialist in Canadian literature who has been especially active in editing

contemporary Canadian Drama.

The titles of her talks are: "Counterfeiting Hindsight" (4 March), "Re-Inventing the Nineteenth Century" (7 March), "Aspiring Beyond Borders" (9 March), and "Rediscovering Regions" (11 March).

As was the case with the first three lectures, the concluding lecture will be presented at 4 p.m. in L-1 Humanities Centre.□

## C-I-L Lectureship Set

Each year C-I-L Inc. sponsors the Distinguished Visiting Lectureship program in the Department of Chemical Engineering. The 1983 C-I-L Distinguished Visiting Lecturer is John H. Sinfelt.

Dr. Sinfelt is a Senior Scientific Advisor in the Corporate Research Science Laboratories of the Exxon Research and Engineering Company in Linden, New Jersey. He has been active in heterogeneous catalysis research during his entire career at Exxon, which began immediately after receipt of his PhD in 1954 from the University of Illinois. For his accomplishments in catalysis, he has received numerous awards including the President's National Medal of Science in 1979.

Dr. Sinfelt is a member of the National Academy of Sciences and the National Academy of Engineering. For the past fifteen years his research has been concerned primarily with developing the concept of highly dispersed "bimetallic cluster" catalysts, and with the application of this concept in industrial catalysis. Currently, he is involved extensively with research on the

structure of bimetallic clusters, and of small metal clusters in general, utilizing extended x-ray absorption fine structure as a probe.

On 21 March Dr. Sinfelt will lecture on "Bimetallic Catalysts" and on 22 March he will speak on "Application of Extended X-ray Absorption Fine Structure in Catalysis." (Fundamental and technological aspects of supported bimetallic catalysts will be discussed in these lectures.)

Both lectures will be given at 3:30 p.m. in 346 Chemical/Mineral Engineering Building.□

*people*

R.L. Busch (Slavic and East European Studies) presented a paper on "Fathers and Sons, Turgenev and Dostoevsky's Demons" at the Turgenev Centennial Symposium in

Calgary, 18 February, and, together with *Alexander Tumanov* (Slavic and East European Studies), spoke on 25 February to a CEESSA/CEESAC Conference devoted to Central and East European Ethnicity in Canada: Adaptation and Preservation concerning the "Organization of Recent Soviet Immigrants to Edmonton."

*Richard d'Alquen* (Germanic Languages) was the invited speaker in the Departments of German at the University of Wisconsin, Madison, and the University of Minnesota, Minneapolis, on 15 and 17 February. He reported on research reversing a century old belief concerning the ninth century Lay of Hildebrand, the only heroic lay in German.

On 17 February *Linda Marie Fiedigan* (Anthropology) gave an Elizabeth R. Laird Lecture at Memorial University, Newfoundland, entitled "Primate Mirrors: Reflections on Sex Differences in Human Behavior." She also talked to the Anthropology Department and the Women's Studies Group at Memorial on the topic "Women in Science and Society."

*L.C. Green* (University Professor) delivered two lectures in Vancouver on 23 February. He spoke on "War Crimes, Extradition to Command Responsibility" before a gathering of UBC international law students, and discussed "International Terrorism" at the Institute of Adult Jewish Education.

## service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

### Coming Events

#### Lectures and Seminars

##### Limnology and Fisheries Discussion Group

17 March, noon. Pat Mitchell, Alberta Environment, will present a seminar on "Summary of the Lake Wabamun Study." G217 Biological Sciences Building.

#### Faculty of Library Science

10 March, 2 p.m. Maurice Line will speak on "The British Library and Its Lending Division." 165 Education South.

10 March, 7:30 p.m. Mr. Line will present a lecture entitled "The Impact of Technology and Economics on Document Publication and Supply." L-1 Humanities Centre.

15 March, 2 p.m. R. Ivany, Provincial Ombudsman, and Ingrid Hansen, Federal Commissioner of Privacy, will speak on "The Citizen's Right to Privacy." 3-01 Rutherford South.

22 March, 12:30 p.m. A. Schrader will give a lecture entitled "Orientation to Practicum II." 3-01 Rutherford South.

#### Departments of Slavic and East European Studies, English and Comparative Literature

10 March, 3:30 p.m. James M. Holquist, Chairman, Department of Slavic Languages and Literatures, Indiana University, will speak on "Discursive Shift and Character Change in War and Peace." 2-21 Humanities Centre. The following is a list of other lectures he will be presenting.

11 March, 3:30 p.m. "Secret Legislators: The Role of Literature in Russian Science." 2-21 Humanities Centre.

14 March, 3:30 p.m. "The Metaphor of the Detective: The Detective of Metaphor." 2-21 Humanities Centre.

15 March, 3:30 p.m. "Linguistic Subjectivity and Political Dissidence." 2-21 Humanities Centre.

16 March, 10 a.m. "The Carnival of Discourse: Simultaneity in Bakhtin." 311 Athabasca Hall.

16 March, 3:30 p.m. "Answering as Authoring: Bakhtin's Translinguistics." 2-21 Humanities Centre.

17 March, 9 a.m. "Bakhtin and the Formalists." 311 Athabasca Hall.

#### Department of Philosophy

10 March, 3:30 p.m. Jan M. Zytkow will lecture on "Partial Definitions in Science Compared to Meaning Families in Natural Language." L-2 Humanities Centre.

15 March, 4:30 p.m. Bas C. van Fraassen, Princeton University, will present a lecture on "Belief and the Will." L-2 Humanities Centre.

17 March, 3:30 p.m. J.Z. Young, Distinguished Visitor in the Department of Zoology, will present a lecture entitled "Philosophers Use Your Brains." L-2 Humanities Centre.

#### Department of Romance Languages

10 March, 4 p.m. Mary Ann Caws, Hunter College and the Graduate Center, CUNY, will present a lecture entitled "Reading What We See: Re-viewing Surrealism. Some Visual and Literary Turns." L-3 Humanities Centre.

#### Department of Art and Design

11 March, 2:30 p.m. Eva Smithwick will present a seminar on "Delacroix, his palette." 2-20 Fine Arts Building.

14 March, 7 p.m. Judith Sharp, Banff Centre, will speak on "British Sculpture 1950 to 1982." 2-20 Fine Arts Building.

18 March, 2:30 p.m. Helena Fracchia will present a lecture entitled "Greek Wall-Painting of the Classical and Hellenistic Periods: A Review of the Evidence." 2-20 Fine Arts Building.

#### Department of Geography

11 March, 3 p.m. W.K.D. Davies, University of Calgary, will lead a colloquium by giving a paper entitled, "Contemporary Characteristics of Prairie Urbanization." 3-36 Tory Building.

#### Department of History

11 March, 3:05 p.m. Ulrich Trumpener will speak on "The German Connection: Wehrmacht Officers in the Soviet Union, China, and Turkey in the Interwar Years." 2-28 Tory Building.

18 March, 3:05 p.m. Paul W. Gates, Cornell University, will give a lecture entitled "A Comparison of Canadian and American Land Policy." 2-58 Tory Building.

21 March, 3:05 p.m. John S. Brownlee, University of Toronto, will speak on "The Problem of History Textbooks in 20th Century Japan." 2-58 Tory Building.

#### Department of Zoology

11 March, 3:30 p.m. John Magnuson, Laboratory of Limnology, University of Wisconsin, will lecture on "A Second Look at Lakes as Islands." 345 Earth Sciences Building.

15 March, 3:30 p.m. J.Z. Young, F.R.S., (EFF Distinguished Visitor) will present a lecture entitled "The Statocyst as a Mirror of the Habits of Cephalopods." 345 Earth Sciences Building. The following is a list of the other lectures he will be presenting.

16 March, 3:30 p.m. "The Control Systems of the Viscera of Fishes." 345 Earth Sciences Building.

17 March, 3:30 p.m. "Philosophers Use Your Brains." L-2 Humanities Centre.

#### Department of Food Science and the Faculty of Agriculture and Forestry

14 March, 11 a.m. Ron Usborne, Chairman, Food Science Department, University of Guelph, will present a seminar entitled "Meat Research at the University of Guelph." 165 Education South.

#### Alberta Heritage Foundation for Medical Research

14 March, 11 a.m. J. Aranda, Professor, Pediatrics, Montreal Children's Hospital, will present a lecture entitled "Effect of Drugs on Cerebral Blood Flow in the Newborn." 5-104 Clinical Sciences Building.

15 March, 9 a.m. Dr. Aranda will speak on "Pharmacology of Caffeine and Theophylline in Newborns and Children." 2-115 Clinical Sciences Building. Both lectures are sponsored by the Department of Pediatrics.

22 March, 9 a.m. James Sidbury, National Institute of Child Health and Human Development, Bethesda, Md., will present a lecture entitled "New Alternatives to the Treatment of Type I Glycogen Storage Disease." 2-115 Clinical Sciences Building. Sponsored by the Department of Pediatrics.

#### Department of Soil Science

15 March, 12:30 p.m. E. Bisdorff, Soil Survey Institute in the Netherlands, will speak on

## Co-ordinator

### Committee for the Improvement of Teaching and Learning

The University of Alberta requires a co-ordinator for the Committee for the Improvement of Teaching and Learning. Amongst the responsibilities of the incumbent will be the setting up of a human resources and audio-visual resources file relating to the improvement of university teaching and its evaluation, the organization of workshops and seminars, and possibly the co-ordination of a system of individual consultation for improving teaching. The salary for an initial eleven month appointment will be \$19,000, commencing July 1, 1983.

Applicants ideally should possess a higher degree in an academic field, and have some experience teaching in a post-secondary institution.

Applications, with a curriculum vitae and three letters of reference, should be addressed to Dr. J. Hoddinott, C.I.T.L., Department of Botany, University of Alberta, Edmonton, Alberta, T6G 2E9, and be received by May 16, 1983.

*The University of Alberta is an equal opportunity employer, but in accordance with Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.*

"Quantimet Determinations for Modelling Basin Porosity." 1-103 Tory Building.

#### **Canadian Institute of Ukrainian Studies**

15 March, 3:30 p.m. Omeljan Pritsak, Director, Harvard Ukrainian Research Institute, will conduct a seminar entitled "The Problem of Translation of the Igor Tale." 352C Athabasca Hall.

#### **Department of Slavic and East European Studies**

15 March, 3:30 p.m. O. Zujewskyj will present a seminar entitled "Literary Movements and Styles." 311 Athabasca Hall.

#### **Department of Anthropology**

15 March, 3:30 p.m. Janice Morse will present a seminar on "Infant Formula and the 3rd World: An Anthropological Interpretation." 14-6 Tory Building.

#### **Department of English**

15 March, 3:30 p.m. R.R. Wilson will speak on "Bemazed Ears: Shakespearean Narrative." 5-20 Humanities Centre.

#### **Boreal Institute for Northern Studies**

15 March, 8 p.m. Susanne Swibold, cinematographer, will present the lecture "The Pribilof Islands—Galapagos of the North." CW410 Biological Sciences Building.

#### **Department of Botany**

16 March, 3:30 p.m. Alexander Horne, University of California, will present a seminar entitled "Nitrogen Fixation in Lakes, With Special Reference to Oligotrophic, Saline Pyramid Lake, Nevada." M-137 Biological Sciences Building.

23 March, 3:30 p.m. Sean McNicholas will speak on "Some Aspects of Blue-Green Algal Toxins." M-137 Biological Sciences Building.

#### **Departments of East Asian Languages and Literatures, History and Comparative Literature and the Consulate-General of Japan**

16 March, 4 p.m. Takehiko Noguchi, University of Kobe, Japan, will present a lecture entitled "Mishima Yukio and Kita Ikki: Ultra-nationalism in Japanese Literature and Politics." 1-7 Humanities Centre.

#### **Department of Immunology**

17 March, 11 a.m. Vernon T. Oi, Department of Genetics, Stanford University School of Medicine, will present a lecture entitled "Immunoglobulin Gene Expression in Transfected Lymphoid Cells." Dr. Oi's specialty is molecular immunology. The speaker is being sponsored by The Alberta Heritage Foundation for Medical Research. 8-66 Medical Sciences Building.

#### **Department of Music**

17 March, 2 p.m. Kenneth Hicken, Professor of Music, University of Lethbridge, will speak on "Aspects of Harmony in Schoenberg's Op. 19." 2-32 Fine Arts Building.

#### **Department of Chemical Engineering**

21 March, 3:30 p.m. J.H. Sinfelt, Senior Scientific Advisor, Exxon Research and Engineering Company, Linden, New Jersey, and the 1983 C-I-L Distinguished Visiting Lecturer, will speak on "Bimetallic Catalysts." 345 Chemical/Mineral Engineering Building.

22 March, 3:30 p.m. Dr. Sinfelt will speak on "Applications of Extended X-ray Absorption Fine

Structure." 346 Chemical/Mineral Engineering Building. Please telephone 432-3321 if you plan to attend either of these lectures.

#### **Science Dining Club**

24 March, 6 p.m. D.A. Craig, Department of Entomology, will speak on "Pacific Black Flies or a Polynesian No-No." For reservations, please phone Donna Arbuthnott at 432-5072. Guests are welcome. Saskatchewan Room, Faculty Club.

#### **Department of Family Studies**

25 March, noon. Norah Keating will present a brown bag seminar on "Policies for the Aging Population in England." 814 General Services Building.

#### **Music**

##### **Edmonton Chamber Music Society**

16 March, 8 p.m. Camerata Canada will perform works by Telemann, C.P.E. Bach, Brahms, Schubert, Harry Freedman, and Mendelssohn for clarinet, flute, violin, cello, soprano, and piano. Admission by season membership and/or by single tickets at the door (\$10). SUB Theatre.

##### **Department of Music**

10 March, 8 p.m. A senior student recital with Darolyn Dunphy on the piano. Convocation Hall.

11 March, 5 p.m. A junior student recital with Donna Abbey-Colborne, soprano. Convocation Hall.

11 March, 8 p.m. A senior student recital with Arnelle Ries on the piano. Convocation Hall.

13 March, 3 p.m. A two-piano recital with Alexandra Munn and Ernesto Lejano. Convocation Hall.

14 March, 8 p.m. The University of Alberta Stage Band with Fordyce Pier, conductor. Convocation Hall.

16 March, 8 p.m. Joseph McAlpine—provisional candidate for the Doctor of Music degree in piano. Convocation Hall.

17 March, 8 p.m. The University of Alberta Madrigal Singers Spring Concert—Leonard Ratzlaff, conductor. Convocation Hall.

#### **Exhibitions**

Until 14 March. "The B.F.A. Show." Organized by the Art and Design graduating class of 1983, this exhibition contains an overview of current student work, including painting, prints, drawings, sculpture, and visual communication design. Ring House Gallery.

Until 15 March. Poetry in Rare and Illustrated Editions. The Bruce Peel Special Collections Room, B-37 Cameron Library.

#### **75th Anniversary Events**

*The Brahms Library Display.* To coincide with the 150th anniversary of the birth of Johannes Brahms, materials relating to the works and life of the composer. Rutherford Library Galleria.

Until 31 March. The Humanities and Social Sciences Library will highlight publications by members of the Department of Romance Languages in a display across from the Circulation Desk.

10 to 11 March. Pediatric Research Symposium and Workshop. For further information, contact Annette Arabo at 432-3359 or Mark

Poznansky at 432-5074. The following lectures will be given:

10 March, 9 a.m. A. Rothstein, Hospital for Sick Children, Toronto, will speak on "How cells regulate their volumes—behaviour of lymphocytes toward anisotonic media." D.S. Layne, Director of Research, Toronto General Hospital, will discuss "Biotechnology: Impact on Research Funding and Training." 2-27 Medical Sciences Building.

10 March, 2 p.m. J.A. Lowden, Hospital for Sick Children, Toronto, will speak on "Tay-Sachs Disease—100 years Old and Going." T.M.S. Chang, Director, Artificial Cells and Organs Research Centre, McGill University, will present a lecture entitled "Artificial Cells: basic research biotechnology and clinical applications." 2-27 Medical Sciences Building.

11 March, 8:30 to 10:30 p.m. A workshop on "Bridging the Gap: Basic Science to Clinical Medicine." Guest participants are: T.M.S. Chang, J.A. Lowden, C. Roy, and L. Tyrrell. A. Rothstein will give a lecture entitled "The Importance of Hospital-based research." Council Chamber, 2nd Floor, University Hall.

11 March, 10:45 a.m. to 12:30 p.m. A workshop to discuss the topic "Impact of Pediatric Research Institute on the University, Hospital, Government, and Community."

11 March, 10:45 a.m. to 12:30 p.m. A workshop on "Pediatric Research Institute: Organization and Finance."

14 to 20 March. Conference on "Canada, The World and the Future." For further information, contact Dr. B. Abu-Laban at 432-5320.

18, 19, and 20 March. Faculty of Education Open House. 18 March—6 to 10 p.m.; 19 March—10 a.m. to 5 p.m.; and 20 March, 2 to 5 p.m. The Open House will be officially launched on 18 March at 7 p.m. by Dean Worth; the program will feature a topical address on Canadian education by M. Horowitz.

#### **Films**

##### **Chaplains' Association**

10 March. "The Long Search: Quest for Faith" film series concludes with a panel discussion on the role of conversion in contemporary Canadian life. 12:30 p.m. in the Newman Centre; 7:30 p.m. in 158 SUB. Sponsored by the U of A Chaplains.

##### **Department of Anthropology**

10 March, 3:30 p.m. The department is presenting a special showing of two outstanding NFB films: "Circle of The Sun," and "Standing Alone." TB-45 Tory Building.

##### **Department of Germanic Languages**

23 March, 7:30 p.m. "Tannhauser." (1978) Arts 17.

##### **Department of Romance Languages**

Wednesdays, 3 p.m. The Italian Area of the Department of Romance Languages presents a series of films in Italian (without subtitles). For information, contact M. Verdicio at 432-2003. Arts 17.

#### **Radio and Television**

##### **Radio**

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

11 March, 8 p.m. Voiceprint—"French, Jous, and Quebecois Literature."

12 March, 7 p.m. University Concert Hall—Concerts, recitals, and interviews with faculty and special guests of the Department of Music.

16 March, 7 p.m. Behind the Curtain—"Dear Henry" and "On Hold" written by Glynis Whiting.

16 March, 7:30 p.m. Extensions—"Instructors in the Faculty of Extension discuss their subject areas."

16 March, 7:45 p.m. Perspectives—Issues underlying current events examined in lively debate format.

18 March, 8 p.m. Voiceprint - "Italian Language and Literature."

#### **Television**

Programs broadcast on Q-9 and C-13.

14 March, 9 p.m. For the Love of Music—"Dr. Suzuki's approach to teaching children violin."

16 March, 9 p.m. Faculty Profiles—Faculty of Arts; Department of Anthropology—"Placing Man In Time."

17 March, 9 p.m. Can You Tell Me Your Name—"The reactions of the Community to a stammerer and how he copes."

#### **Sports**

11 and 12 March, 6:30 and 8:30 p.m. CIAU Basketball Western Regional Tournament (hosted by the Golden Bears). Varsity Gym.

#### **Matters of Faith**

Lutheran Campus Ministry Worship each Sunday at 10:30 a.m. in the Newman Centre, the west basement of St. Joseph's College. All are welcome.

#### **SUB Theatre**

##### **Films**

15 March, 8 p.m. "Clockwork Orange" (1971).

17 March, 8 p.m. "Absence of Malice" (1981).

##### **Music**

Until 12 March, 7:30 p.m. Irving Berlin's "Annie Get Your Gun!" Directed by Greg Rogers. Tickets at BASS outlets. SUB Theatre.

13 March, 7 and 9:45 p.m. Yardbird Productions presents "Doc Watson." Tickets available at all BASS outlets.

16 March, 8 p.m. The Edmonton Chamber Music Society presents "Camerata Canada." For more information, contact Mr. Jacka at 433-8102.

##### **Studio Theatre**

17 March to 2 April, 8 p.m. "The Deer and the Antelope Play." For tickets, phone 432-2495.

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#### **Non-Credit Courses**

##### **Computing Services**

###### **Client Training Sessions**

Computing Services is taking registrations between 8:30 a.m. and noon for the following non-credit courses. Please phone 432-2261 first to confirm the dates. Payment is required in advance and clients who do not cancel two business days in advance will be charged. Contact Mardell Olson,

Training Assistant, at 432-2261 or in 323 General Services Building, for more information.

#### **Introduction to Computing at the U of A**

*Course number: 871. Date: 14 March. Time: 11 a.m. to 1 p.m. Fee: \$10. Prerequisites: No previous computing experience, but familiarity with a keyboard is required. Place: 351 GSB.*

#### **MTS and Editor Fundamentals**

*Course number: 892. Date: 16 and 18 March. Time: 11 a.m. to 1 p.m. Fee: \$15. Prerequisites: "Introduction to Computing" or equivalent working knowledge of a DECwriter terminal and the MTS system. Place: 351 GSB.*

#### **Introduction to PLATO**

*Course number: 975. Date: 11, 18, 23 March—3 to 5 p.m.; 1, 8, 15, 22, 29 April—3 to 5 p.m. Fee: \$25. Prerequisites: None. Place: 357 GSB.*

#### **MTS Overview**

*Course number: 922. Date: 15 and 17 March. Time: 10 a.m. to noon. Fee: \$15. Prerequisites: "MTS and Editor Fundamentals." Place: 315/327 GSB or 315/357 GSB.*

#### **AJ510 Operation and Visual Editing**

*Course number: 905. Date: 15 and 17 March. Time: 11 a.m. to 1 p.m. Fee: \$15. Prerequisites: "MTS and Editor Fundamentals" and a good working knowledge of the File Editor. Place: 357 GSB.*

#### **Introduction to Text Formatting**

*Course number: 934. Date: 14, 16, 18, 21, 23, 25 March. Time: Noon to 2 p.m. Fee: \$25. Prerequisites: "MTS and Editor Fundamentals," "MTS Overview," and a good working knowledge of the File Editor. Place: 315/351 GSB.*

#### **Introduction to SPIRES**

*Course number: 942. Date: 16 and 18 March. Time: 1 to 4 p.m. Fee: \$10. Prerequisites: "MTS and Editor Fundamentals" and a good working knowledge of file editing and terminal use. Place: 315/351 GSB.*

#### **Faculty of Extension**

##### **Division of Urban and Rural Planning**

For further information on the courses listed below, call 432-2912.

##### **An Introduction to Regional Planning**

*Date: 28 and 29 March. Fee: \$125.*

##### **An Introduction to Computer Graphics**

*Date: 14 and 15 March. Fee: \$135.*

##### **Office Layout**

*Date: 21 and 22 March. Fee: \$130.*

#### **Business, Industrial and Professional Division**

For further information on the courses listed below, call 432-5066 or 432-5067.

##### **Wills and Estate Planning**

*Date: 15 to 29 March. Fee: \$100.*

##### **Effective Speaking For Business and Professional People**

*Date: 21, 22, and 23 March. Fee: \$250.*

#### **The Integrated Office (Combining Word and Data Processing for Productivity Improvement)**

*Date: 5 April. Fee: \$275.*

#### **Stocks, Bonds and Other Investments**

*Date: 30 and 31 March. Fee: \$125.*

#### **Organizational Climate**

*Date: 7 and 8 April. Fee: \$165.*

#### **Field Trips**

For further information on the courses listed below, call 432-5061.

##### **Bamfield Marine Station Field Trip**

*Date: Orientation, 28 March. Fee: \$200.*

##### **Mountain Hazards: Bears and Avalanches**

*Date: 6 April to 3 May. Fee: \$30.*

#### **Applied Behavioral Sciences Division**

For further information on the courses listed below, call 432-5069.

##### **Coping with Loss**

*Date: 11 and 12 March. Fee: \$35.*

##### **Breathing for Health, Relaxation, and Vitality**

*12 March. Fee: \$40.*

##### **Shyness**

*Date: 8 Mondays commencing 14 March. Fee: \$50.*

##### **Management Studies for Women**

For further information on the courses listed below, call 432-2230.

##### **Cost Effective Office Management**

*Date: 12 and 13 April. Fee: \$165.*

#### **Real Estate Division**

For further information on the courses listed below, call 432-5060.

##### **Tactics, Techniques and Strategies in Real Estate Negotiations**

*Date: 8 April. Fee: \$110.*

##### **Foreign Investment in California Real Estate: Legal and Tax Strategy for the Non-resident Investor**

*Date: 11 April. Fee: \$110.*

##### **Investment Analysis—The Mathematics of Yield Measurement, Property Valuation and Ranking of Investment Alternatives**

*Date: 15 April. Fee: \$95.*

##### **Management of Income Property**

*Date: 22 and 23 April. Fee: \$175.*

##### **How to Survive, Compete, Expand and Make a Profit with Your Own Real Estate Company in the 1980s**

*Date: 28 and 29 April. Fee: \$175.*

##### **Starting Your Own Building and Development Company**

*Date: 6 May. Fee: \$110.*

#### **Sales and Acquisition—How to Avoid Making Costly Errors**

*Date: 11 May. Fee: \$95.*

#### **Increasing Your Sales Potential**

*Date: 13 May. Fee: \$110.*

#### **Second Mortgages: Investment for the 1980s**

*Date: 18 May. Fee: \$95.*

#### **Fitness and Lifestyle Courses**

The Faculty of Extension is now offering Spring and Summer fitness programs. Some of the courses starting in April are:

Fitness for Superfits

Fitness for Unfits

From Fat to Fit

Aerobic Dance Plus

Fitness for Nurses

The Incredible Machine

Tai Chi

Co-Ed Fitness

Fitness for Men

Fitness for Women

Relaxercise

If you would like further information on these courses, please call the Faculty of Extension at 432-2015 for a brochure.

#### **Courses in Microelectronics**

For further information on the courses listed below, call 432-3914.

##### **Microprocessor Interfacing**

*Date: 5 to 28 April. Time: 6 to 9:30 p.m.*

##### **Microprocessor Project**

*Date: 3 to 27 May. Time: 6 to 9:30 p.m.*

##### **Software Engineering**

*Date: 16 March to 7 April. Time: 7 to 10 p.m.*

regulations when contraventions are observed. It should be noted that when an offending operator fails to pay the assessed fine, Traffic and Parking Regulations provide for authority to offset the sum against his/her salary.

#### **Science in Physical Therapy Conference**

The Third Annual Science in Physical Therapy (SIPT) Conference will be held on 17 and 18 June 1983 at the University of Calgary. Those interested in presenting in this conference should contact S. Kumar, Department of Physical Therapy, 210 Corbett Hall, for author's kit. The last day for submission of abstracts is 2 May 1983.

## **Scholarships, Fellowships and Awards**

#### **Welch Foundation Scholarship**

*Donor: International Union for Vacuum Science, Technique and Applications. Where tenable: A laboratory of one's choice. Preference given to applicants who propose to study in a foreign lab in which they have not yet studied. Level of study: Should have at least a bachelor's degree; a doctor's degree is preferred. Field: Study of vacuum science, technique, or their application in any field. Value: Approximately \$7,000 US funds. Number: One. Duration: One year beginning 1 September 1983. Conditions: Must obtain the authorization of the Chairman of the Welch Committee of the IUVSTA before accepting any additional funds or scholarships during the course of his work under the Welch Foundation. Closing date: 15 April 1983. Further information and application forms should be requested from: Division of Electrical Engineering, Room 162, Building M-50, National Research Council, Ottawa, Ontario, K1A 0R6.*

## **Surplus Equipment**

*The equipment appearing in this column is available only to University Departments with University Administered Funds. For further information about the purchase of equipment or the disposal of any of your department's surplus equipment, contact Bonnie O'Dwyer or Roy Bennett, telephone 432-3208.*

1 MS 11LB 128K Byte Mos Memory Board for Unibus PDP 11 Computer. For further information, please contact: Dr. R. Bell, 432-2485.

1 Glassware Washer - Vernitron

1 Beckman Grating Spectrophotometer

1 Beckman Hydrogen/Mercury Power Supply for Spectrophotometer. For further information, please contact: Imtiaz, Medical Microbiology, 432-2101.

## **Positions Vacant**

*The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residences.*

## **Non-Academic Positions**

*To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone*

432-5201. As positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 3 March 1983. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in P.S.S.R.

Administrative Clerk (Term) (\$1,373-\$1,682) Office of the Comptroller (Payroll Division)  
Library Assistant II (\$1,373-\$1,682) Faculté Saint-Jean  
Programmable Typewriter Operator III (\$1,373-\$1,682) Secretariat  
Departmental/Executive Secretary (Term) (\$1,548-\$1,908) Housing and Food Services  
Technician I (Trust, Term) (\$1,426-\$1,754) Home Economics  
Chemistry Technician I (Trust, Part-Time) (\$713-\$877) Chemistry  
Applications Analyst (\$1,754-\$2,171) Office of the Registrar  
Console Operator (\$1,908-\$2,368) Computing Services  
Programmer/Analyst III (Trust) (\$2,472-\$3,085) Computing Science  
Programmer/Analyst III (\$2,472-\$3,085) Computing Services

For vacant library positions, please contact the Library Personnel Office, 5th floor, Cameron Library, phone 432-3339.

### Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds.

There is a maximum limit of thirty words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

### Accommodations available

Forced to sell - House, 11155-72 Ave. 1 1/2 storey, revenue potential, 1,350 sq. ft., five bedrooms, two baths, remodeled kitchen, new heated garage, landscaped. Terms available. Offers to \$85,000. Michael 1-243-6220.

For rent - Fully furnished, four bedroom, convenient, Bluequill home. August '83 - July '84. 432-5979, 436-9302.

For rent - One bedroom apartment, fully furnished, garage option, one block from University; May through August 1983. \$420. Phone 433-7702.

For rent - Large, furnished or unfurnished, five bedroom home (October 1983 or earlier to July 1984). 432-5106, 487-3415.

Sabbatical house - Greenfield. Aug. 1983 - 84. Fully furnished, three bedrooms, finished basement, double detached garage, quiet neighborhood, half block from bus pick-up. \$800/month. Call 436-6566.

For sale - Close to University, attractive, semi-bungalow. Five appliances. All drapes. Oak cabinets. Single and double garage. Gladys Schuler, 423-0718, 436-5250. Spencer Real Estate.

For rent - Professor's furnished, four bedroom home, July '83 - '84. Easy access to University, schools, shopping. 432-2004, 436-6761.

Exchange/rent - One year retreat, beautiful mountain valley, Creston, B.C. 3,000 sq. ft. solar home. Large workshop, stables, 70 acres, view property. 428-3408 days.

For rent - Five bedroom, furnished house. Lendrum. Garage, fenced, \$900. Available 1 May. 434-1203.

For rent - Two bedroom house, University area. 437-0458 evenings.

Sleeping room - Male graduate student. Non-smoker, quiet home, private entrance, near Lister Hall. 439-1793.

For rent - August 1983 - June 1984. Furnished, three bedroom bungalow. Duggan. 436-6606.

Exchange/rent - Large, four bedroom home. Aug 83 - July 84. Furnished, ten minutes Laval University. (French, English elementary, high schools). Professor on sabbatical. Claude Deblois, office 1218, Faculty Education, University Laval, St. Foy, Quebec. 1-418-656-2775.

For rent - Belgravia, three bedroom, furnished house, low rent to careful tenants, mid-May 1983 - August 1984. 436-0139.

For sale - \$69,900 (Bargain). Fine older home. Inglewood. Three bedroom, two storey, ten minutes to University/downtown. 455-2947 evenings.

Sublet - Large, furnished, one bedroom apartment. Balcony, pool, parking, utilities, laundry, very close University. April - July (August negotiable). Non-smokers, references, \$600. 432-7359.

Renting now - Furnished, bachelor suite, near University. Non-smoker. 435-6876.

For rent - Four bedroom house, 25 June 1983 - mid-Aug 1984. Aspen Gardens Bus direct to University. Westbrook elementary school. 432-3862, 435-1467 evenings.

### Accommodations wanted

Wanted to rent - Executive requires furnished, one bedroom apartment, three months, starting first April. Will consider sitting a home/apartment while owner away. Call Janet Jenner at Western Relocation, 438-1044.

### Goods for sale

English oak furniture. Six Cromwellian type dining chairs with hide seats. Oval drop leaf dining table with Jacobean legs and carved top. Buffet. Combined bookcase and bureau. Tea trolley. 433-9814.

Riverbend Racquet Club. Membership available. Fees only. 435-7821, 432-4110.

Music! Indian harmonium, hand organ. Small price. 434-9021.

### Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A-105 St. 432-1419.

Singing teacher, Eileen Turner 439-4661.

Sailing: Learn to sail in B.C.'s beautiful Gulf Islands Basic Coastal Cruising, Advanced Coastal Cruising, Flotilla and Skippered Charters. Now booking for 1983. Alberta Yachts 426-4372.

Spring will soon be here. Bring in an idea, picture, or pattern and walk out with a garment that's yours alone. Alterations, too. Shirley DeChamplain 10620-126 St. 454-7048. Appointment only.

Whiplash injuries? Spine specialist Marie Krieg, University trained in Dusseldorf, relieves backaches and tension using heat, medical massages, chirogymnastics and interferential electrotherapy. Maria Krieg Physiotherapy, 436-8059. Canadian Tax Returns - Eberlein Consulting. 434-0563.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Custom dressmaking and design. European trained. Call Jacqueline, 433-4870.

Take French courses at Ecole Alliance Francaise. Spring session. 18 April - 15 June. 435-2260.

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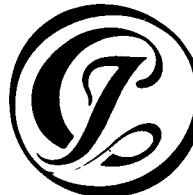
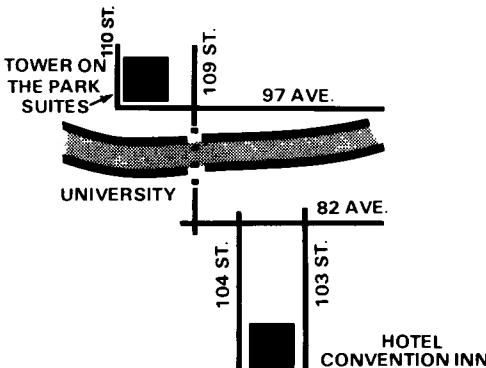
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